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### 1 [Improving performance by branch reordering](#)



Minghui Yang, Gang-Ryung Uh, David B. Whalley

 May 1998 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1998 conference on Programming language design and implementation PLDI '98**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.51 MB)

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The conditional branch has long been considered an expensive operation. The relative cost of conditional branches has increased as recently designed machines are now relying on deeper pipelines and higher multiple issue. Reducing the number of conditional branches executed can often result in a substantial performance benefit. This paper describes a code-improving transformation to reorder sequences of conditional branches. First, sequences of branches that can be reordered are detected in the c ...

### 2 [Efficient and effective branch reordering using profile data](#)



Minghui Yang, Gang-Ryung Uh, David B. Whalley

 November 2002 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 24 Issue 6

Publisher: ACM Press

Full text available: pdf(852.50 KB)

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The conditional branch has long been considered an expensive operation. The relative cost of conditional branches has increased as recently designed machines are now relying on deeper pipelines and higher multiple issue. Reducing the number of conditional branches executed often results in a substantial performance benefit. This paper describes a code-improving transformation to reorder sequences of conditional branches that compare a common variable to constants. The goal is to obtain an orderi ...

**Keywords:** Conditional branches, branch reordering, profiling

### 3 [Slipstream processors: improving both performance and fault tolerance](#)



Karthik Sundaramoorthy, Zach Purser, Eric Rotenburg

 November 2000 **ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Systems Review , Proceedings of the ninth international conference on Architectural support for programming languages and operating**

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You also have it evaluating multiple if **statements**, when it really could go into a single (somewhat extended) if-then-else if **statement**. ...  
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RPL (programming language) - Wikipedia, the free encyclopedia

2.1 Conditional **Statements**. 2.1.1 IF/THEN/ELSE/END; 2.1.2 IFT/IFTE ... **THEN "Beta" ELSE IF DUP "G" == THEN "Gamma" ELSE "Unknown letter" END END END SWAP ...**  
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Unix Shell Scripts

Like other programming languages it has variables and flow control **statements** (e.g. if-then-else, while, for, goto). In Unix there are several shells that ...  
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For example, consider the following script file, say named **Swap**:. #! /bin/csh -f ... **then-else**; while), iterative execution (for loop), a switch **statement**, ...  
[heather.cs.ucdavis.edu/~matloff/UnixAndC/Unix/CShellIII.pdf](http://heather.cs.ucdavis.edu/~matloff/UnixAndC/Unix/CShellIII.pdf) - [Similar pages](#)

Content-Type: text/plain; charset=us-ascii Content-Language: en ...

2+ DUP @ BEGIN ?DUP WHILE DUP @ HERE ROT ! REPEAT HERE **SWAP** ! ; ; CHAIN  
 ( n - a) FIND LENGTH 0< IF @ **ELSE** DUP @ HERE ROT ! **THEN** ; ; **STATEMENT** ( n -- )  
 HERE ...  
[www.nicholson.com/rhn/files/Tiny\\_BASIC\\_in\\_Forth.txt](http://www.nicholson.com/rhn/files/Tiny_BASIC_in_Forth.txt) - 7k - [Cached](#) - [Similar pages](#)

Section 5

The critical element here is the **THEN statement**. ... FLOOR "Average = " OVER +  
 MSGBOX IF DUP 200 < **THEN** 200 **SWAP** - .8 \* FLOOR **ELSE** DROP 0 END "New  
 handicap ...  
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ActionScript Code Blocks: If/Else, For Loops, Functions

Code blocks are also used within if/else **statements** if multiple **statements** ... code block, if  
**then else**, for loop, syntax check, indent code, check equals ...  
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2. if b is less than a, **swap** a and b. 3. if c is less than b ... Boolean. Expression. **Then**  
**Statement. Else Statement.** The rest of the program ...  
[www.soe.ucsc.edu/~sbrandt/12A/Chapter3.pdf](http://www.soe.ucsc.edu/~sbrandt/12A/Chapter3.pdf) - [Similar pages](#)